The Effect of Some Ions on the Precipitation of Uranyl Ferrocyanide From Aqueous Solutions

77753
SOV/75-15-1-15/29

Table 1. Results of amperometric titration of uranyl and copper solutions with ferrocyanide. (a) Taken (millimole); (b) molar ratio; (c) consumption of $K_4Fe(CN)_6$ (millimole; (d) molar ratio; (e) composition of the salt corresponding to the given ratio.

(a) Cu^{2+}	(a) UO_2^{2+}	(b) Cu^{2+}/UO_2^{2+}	(c)	(d) $\Sigma(Cu^{2+}+UO_2^{2+})$ / $Fe(CN)_6^{4-}$	(e)
0	0,01	0 : 1	0,0078	1,29	$K_2(UO_2)_3[Fe(CN)_6]_2$
0,01	0,1	1 : 10	0,0840	1,27	
0,01	0,05	1 : 5	0,0565	1,29	
0,01	0,02	1 : 2	0,0232	1,29	
0,01	0,01	1 : 2	0,0232	1,29	
0,01	0,01	1 : 1	0,0145	1,37	$K_2(Cu,UO_2)_3$ · $[Fe(CN)_6]_2$
0,01	0,01	1 : 1	0,0145	1,37	
0,01	0,01	2 : 1	0,0224	1,34	
0,03	0,01	3 : 1	0,0290	1,37	
0,05	0,01	5 : 1	0,0370	1,63	$K_2(Cu,UO_2)_3$ · $[Fe(CN)_6]_2$
0,10	0,01	10 : 1	0,0750	1,47	
0,15	0,01	15 : 1	0,0965	1,55	
0,06	—	6 : 0	0,0415	1,45	
0,10	—	10 : 0	0,0663	1,51	
0,20	—	20 : 0	0,1280	1,56	$K_2Cu[Fe(CN)_6]$
0,30	—	30 : 0	0,1940	1,55	

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The Effect of Some Ions on the Precipitation of Uranyl Ferrocyanide From Aqueous Solutions

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SOV/79-15-1-15/29

Table 2. Amperometric titration of uranium in the presence of Al, Cr, and Ce. (a) Taken (millimole); (b) molar ratio; (c) consumption; (d) remarks; (e) is not titrated; (f) the same; (g) titrating curves are distinct; (i) titrating curves are not distinct; (j) titrating curve not quite distinct.

(a)				(b)	(c)	(d)
Al^{3+}	Cr^{3+}	Ce^{3+}	UO_2^{2+}	Me^{3+}/UO_2^{2+}	$K_4Fe(CN)_6$, ml	
—	—	—	0,01	0 : 1	0,80	
0,10				1 : 0	(e)	
0,50				5 : 0	(f)	
0,01			0,01	1 : 1	0,90	
0,05	—	—	0,01	5 : 1	0,90	
0,10	—	—	0,01	10 : 1	0,88	(g)
0,30	—	—	0,01	30 : 1	0,90	
0,50	—	—	0,01	50 : 1	0,90	
0,80			0,01	80 : 1	1,00	
1,00	—	—	0,01	100 : 1	1,00	(i)

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The Effect of Some Ions on the Precipitation of Uranyl Ferrocyanide From Aqueous Solutions

77753
SOV/75-15-1-15/29

Table 2. Continued from Card 4/6

(a)				(b)	(c)	(d)
—	0,01	—	—	1 : 1	(e)	
—	0,05			5 : 1	(f)	
—	0,01	—	0,01	1 : 1	0,85	
—	0,02	—	0,01	2 : 1	0,80	(g)
—	0,03		0,01	3 : 1	0,80	
—	0,05		0,01	5 : 1	0,80	
—	—	0,005	—	0 : 0,5	(e)	
—	—	0,010	—	0 : 1	(f)	
—	—	0,0025	0,01	0,25 : 1	0,85	
—	—	0,0050	0,01	0,5 : 1	0,85	(g)
—	—	0,010	0,01	1 : 1	0,85	
—	—	0,025	0,01	2,5 : 1	0,90	
—	—	0,050	0,01	5,0 : 1	0,95	

Card 5/6

The Effect of Some Ions on the Precipitation of Uranyl Ferrocyanide From Aqueous Solutions

77753
SOV/75-15-1-15/29

Table 4. Amperometric determination of uranium in the presence of vanadate (a) Take VO_3 (millimole); (b) taken ... (millimole); (c) ratio ... (millimole), (d) consumption ... for titration (ml); (e) is not titrated; (f) the same.

(a)	(b) UO_2^{2+}.	(c) VO_3^- / UO_2^{2+}.	(d) $K_4Fe(CN)_6$	(a)	(b) UO_2^{2+}.	(c) VO_3^- / UO_2^{2+}.	(d) $K_4Fe(CN)_6$ на
—	0,010	0 : 1	0,80	0,03	0,010	8 : 1	0,75
0,02	—	2 : 0	(e)	0,08	0,010	8 : 1	0,80
0,08	—	8 : 0	(f)	0,16	0,010	16 : 1	0,85
0,20	—	20 : 0	» »	0,40	0,015	27 : 1	1,27
0,80	—	80 : 0	» »	0,40	0,15	27 : 1	1,25
0,04	0,010	4 : 1	0,80	0,40	0,010	40 : 1	0,85
0,04	0,010	4 : 1	0,80	0,40	0,010	40 : 1	0,90

Card 6/6

VOLKOVA, G.A.

Coefficients of the accumulation of radioisotopes of some chemical elements by aquatic insects. Ent. oboz. 42 no.3: 516-519 '63. (MIRA 17:1)

1. Zoologicheskiy institut AN SSSR, Leningrad.

SOCHEVANOV, V.G.; SHMAKOVA, N.V.; MARTYNOVA, L.T.; VOLKOVA, G.A.

Increased sensitivity of the polarographic determination of uranium in the presence of vanadium and phosphate ions. Zhur. anal.khim.16 no.3:362-363 My-Je '61. (MIRA 14:6)
(Uranium--Analysis)
(Polarography)

VOLKOVA, G. A.

Call Nr AF 1095038

AUTHOR: Sochevanov, V. G. (Supervisor), Volkova, G. A., Volkova, S. P., Martynova, L. T., Pakhomova, K. S., Popova, T. P., Rozbianskaya, A. A., Rozovskaya, G. V., and Shmakova, N. V.

TITLE: Methods of Chemical Analysis of Mineral Ores (Metody khimicheskogo analiza mineral'nogo syr'ya); Polarography (Polyarografiya). Nr 2.

PUB. DATA: Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo literatury po geologii i okhrane nedr, Moscow, 1956, 100 pp., 5,000 copies.

ORIG. AGENCY: Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya (VIMS) Ministerstva geologii i okhrany nedr SSSR

EDITOR: Sochevanov, V. G.

PURPOSE: This is a manual for use in industrial laboratories of agencies under the Ministry of Geology and Conservation of Mineral Resources of the USSR.

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Call Nr AF 1095038

Methods of Chemical Analysis of Mineral Ores (Cont.)

COVERAGE: The author claims that the Ministry of Geology and Conservation of Mineral Resources of the USSR first used polarographic analysis of solid mineral resources in the Laboratory of the Ural Geological Administration and later in the laboratories of the Kazakh Geological Administration. Polarographic laboratory equipment is manufactured by the plant "Geologorazvedka" (recording polarographs СГ-8, СГМ-8, polarometers ПВ-1), by the Ural Branch of the Academy of Sciences, USSR (polarometer "Ufan"), by the Academy of Sciences of the Kazakh SSR (polarometer ПТ-2), and by the Gintsvetmet (polarometer ПВ-5). The following scientists took part in the preparation of the instructions under the direction of V. G. Sochevanov: the staff of the Laboratory of Physicochemical Methods of Analysis (VIMS), T. P. Popova (VSEGINGEO) and A. A. Rozbianskaya (Laboratory of Mineralogy and Geochemistry of Rare Earth Metals of the Academy of Sciences, USSR). The methods were recommended for use in industrial laboratories under the Ministry of Geology and Conservation of Mineral Resources of the USSR by the Methodological Section of the

Card 2/11

Call Nr AF 1095038

Methods of Chemical Analysis of Mineral Ores (Cont.)

Scientific Council of the VIMS, namely: G. A. Lanskiy (Chairman), V. I. Titov (Vice-Chairman), V. M.Pensionerova (Secretary), S. K. Rusanov, V. M. Zvenigorodskaya, V. G. Sochevanov, I. V. Sorokin, L. I. Gerkhardt, I. Yu. Sokolov, and I. V. Shmanenkov (Deputy Director of VIMS, Science Division). It was found that the polarographic method for determination of a few per cent or of traces of the constituents frequently excels orthodox methods. The book gives instructions for the polarographic determination of copper, zinc, cadmium, lead, tin, molybdenum, antimony, indium, and thallium in ores. The polarographic method of analysis is discussed in detail, the equipment is described, and lists of reagents are given. Illustrations of electrolytic cells are given on pp. 6,7,8, and 9. The institutions where the polarographic methods were developed are mentioned in the Table of Contents and in the description of the individual procedures in the text. (Soviet scientists distinguish two types of apparatus: 1. polarometers or "visual polarographs", and 2. recording polarographs or "polarographs".) An extensive bibliography is included. There are 47 references of which 40 are USSR.

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Methods of Chemical Analysis of Mineral Ores (Cont.)

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Method of Chemical Analysis of Mineral Ores (Cont.) Call Nr AF 1095038

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Call Nr AF 1095038

Method of Chemical Analysis of Mineral Ores (Cont.)

AVAILABLE: Library of Congress

Card 11/11

PHASE I BOOK EXPLOITATION 697

Volkova, Galina Alekseyevna

Planirovaniye dobychi nefti pri podderzhanii plastovogo davleniya (Organization of Petroleum Production With Maintenance of Bed Pressure) Moscow, Gostoptekhizdat, 1957. 70 p. (Series: V pomoshch' ekonomicheskomu obrazovaniyu neftyanikov) 1,500 copies printed..

Ed.: Nikolayevskiy, N.M., Doctor of Economic Sciences; Executive Ed.: Dubrovina, N.D.; Tech. Ed.: Polosina, A.S.

PURPOSE: The booklet is intended for engineers and technicians concerned with the planning of crude oil production.

COVERAGE: The booklet deals with the special technological features of oil production when the formation is subject to artificial action and when, as a consequence, it becomes necessary to reconsider production planning. Rules and methods for the organization of production with the use of water injection into the formation are given,

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as well as an example of one design of a production plan. The work is based on the experience of oilfields under the Administration of the Tuymazaneft' (Bashkir ASSR) where boundary flooding has been applied for a long time. The author thanks for their help N.I.Dmitriyev, B.Ya. Gombiner and A.V.Kuznetsov. There are 23 Soviet references.

TABLE OF CONTENTS:

AVAILABLE: Library of Congress

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12-16-58

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LYASS, A.M.; VALISOVSKIY, I.V.; Prinimali uchastiye: YAKOVLEV, V.O.; BUDANTSEVA, Z.I.; BAGROV, A.A.; VOLKOVA, G.A.

Improving the shakeout of sand mixtures with sodium silicate solutions. Lit. proizv. no.9:33-36 S '61. (MIRA 14:9)
(Coremaking) (Sand, Foundry)

GETSOVA, A.B.; VOLKOVA, G.A.

Accumulation and elimination of strontium-90 and cesium-137 by the caddis fly Halesus interpunctatus Zett. Dokl. AN SSSR 139 no.2: 483-484 Jl '61. (MIRA 14:7)

1. Zoologicheskiy institut AN SSSR. Predstavleno akademikom Ye.N. Pavlovskim.
(Caddis flies) (Strontium--Isotopes) (Cesium--Isotopes)

15-57-4-5662D

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4, p 220 (USSR)

AUTHOR: Volkova, G. A.

TITLE: Planning Petroleum Production With Artificially Maintained Formational Pressures (Planirovaniye dobychi nefti v usloviyakh razrabotki neftyanykh mestorozhdeniy s podderzhaniyem plastovykh davleniy)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Economic Sciences, presented to Vses. neftegaz n.-i. in-t (All-Union Gas and Petroleum Institute), Moscow, 1956

ASSOCIATION: Vses. neftegaz n.-i. in-t (All-Union Gas and Petroleum Institute)

Card 1/1

Volkova, G.A.

SOCHEVANOV, V.G.; VOLKOVA, G.A.; VOLKOVA, L.P.; MARTYNOVA, L.T.; PAKHOMOVA, K.S.; POPOVA, T.P.; ROZBIANSKAYA, A.A.; ROZOVSKAYA, G.V.; SHMAKOVA, N.V.; ANISIMKIN, I.F., redaktor izdatel'stva; POPOV, N.D., tekhnicheskiy redaktor

[Methods of chemical analysis of mineral ores; polarography] Metody khimicheskogo analiza mineral'nogo syr'ia; poliarografiia. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr. No. 2. 1956. 99 p. (MLRA 10:4)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.
(Polarography)

VOLKOVA, G.A.; PLESHKO, A.M.

Economic efficiency of using electric sinking pumps. Trudy VNII no.22:126-135 '59. (MIRA 15:4)
(Oil well pumps)

VOLKOVA, G.A.; BALASHOVA, T.V.; BUCHEVA, V.N.; PLESHKO, A.M.

Economic efficiency of remote control methods in oil production. Trudy VNII no.22:136-149 '59. (MIRA 15:4)
(Oil fields--Electronic equipment) (Remote control)

VOLKOVA, G.A.

Economic efficiency of remote control of water-intake wells in edge water flooding. Trudy VNII no.22:150-153 '59. (MIRA 15:4)
(Oil field flooding) (Remote control)

VOlKOVA, G. I.

PHASE I BOOK EXPLOITATION SOV/4984

International symposium on macromolecular chemistry. Moscow, 1960.

Mezhdunarodnyy simpozium po makromolekulyarnoy khimii SSSR, Moskva, 14-18 iyunya 1960 g.: doklady i avtoreferaty. Sektsiya III. (International Symposium on Macromolecular Chemistry Held in Moscow, June 14-18, 1960; Papers and Summaries) Section III. [Moscow, Izd-vo AN SSSR, 1960] 469 p. 55,000 copies printed.

Tech. Ed.: P. S. Kashina.

Sponsoring Agency: The International Union of Pure and Applied Chemistry. Commission on Macromolecular Chemistry.

PURPOSE: This book is intended for chemists interested in polymerization reactions and the synthesis of high molecular compounds.

COVERAGE: This is Section III of a multivolume work containing papers on macromolecular chemistry. The articles in general deal with the kinetics of polymerization reactions, the synthesis of special-purpose polymers, e.g., ion exchange resins, semiconductor materials, etc., methods of catalyzing polymerization reactions, properties and chemical interactions of high molecular materials, and the effects of various factors on polymerization and the degradation of high molecular compounds. No personalities are mentioned. References given follow the articles.

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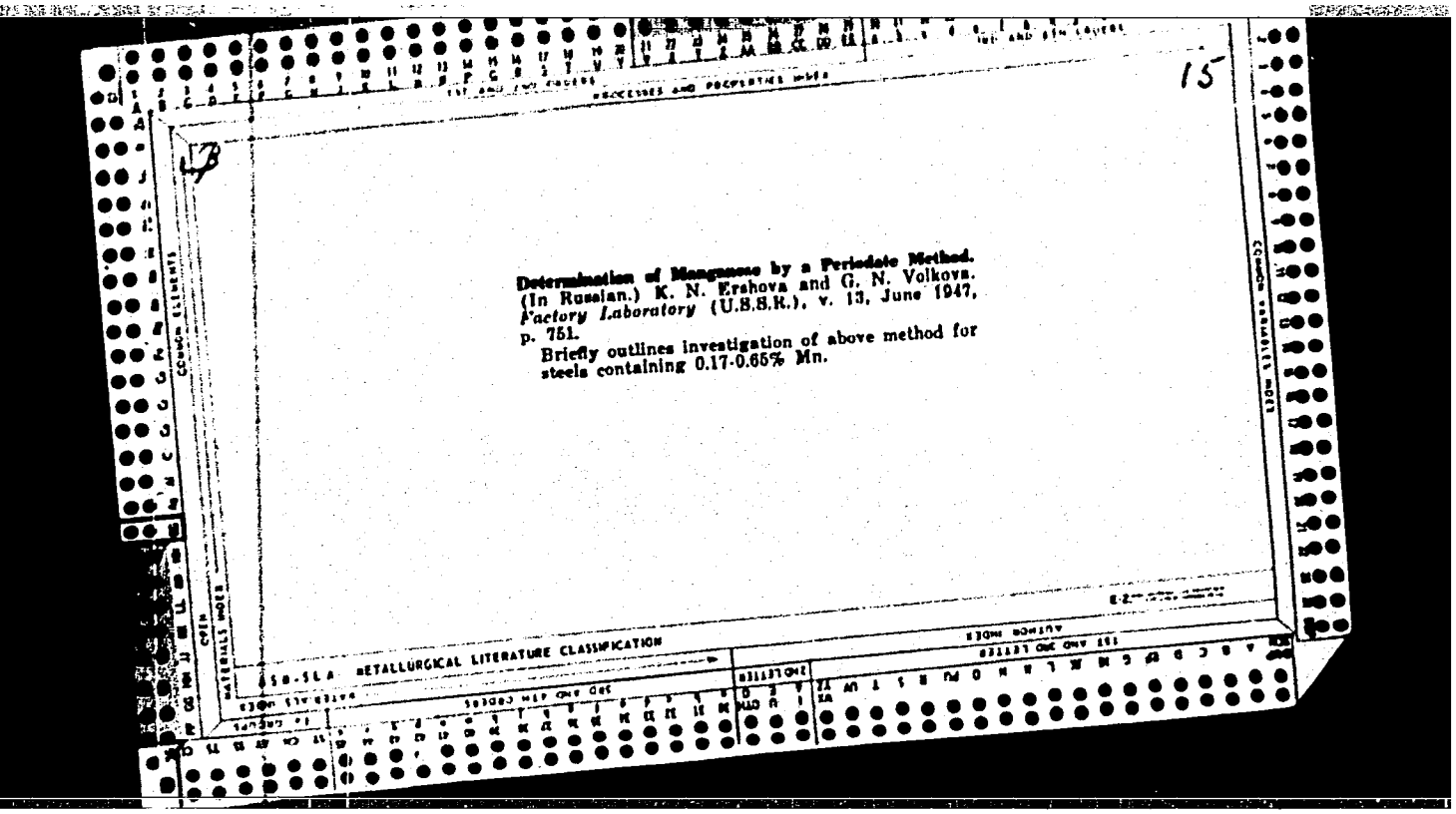

Determination of Manganese by a Periodate Method.
(In Russian.) K. N. Ershova and G. N. Volkova.
Factory Laboratory (U.S.S.R.), v. 13, June 1947, p. 751.

Briefly outlines investigation of above method for steels containing 0.17-0.65% Mn.

VOLKOVÁ, G. N.

30-221. DETERMINATION OF MANGANESE BY A PHOTOELECTRIC METHOD. K.M. ERSHOVA and G.N. Volkova. Factory Laboratory (U.S.S.R.) v. 13, June 1947, p. 751. (In Russian).

Method for steels containing 0.17 to 0.65% Mn.

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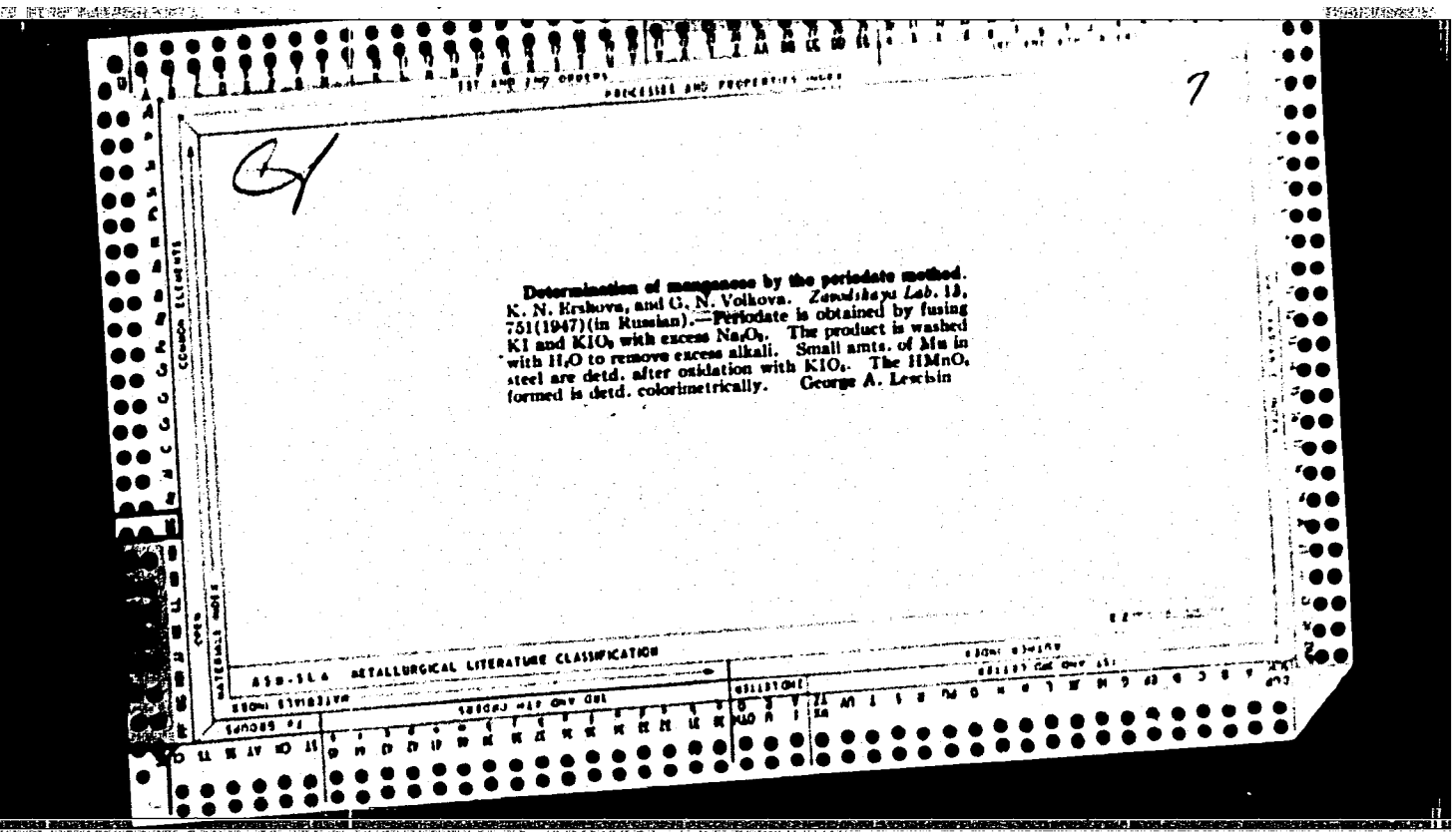
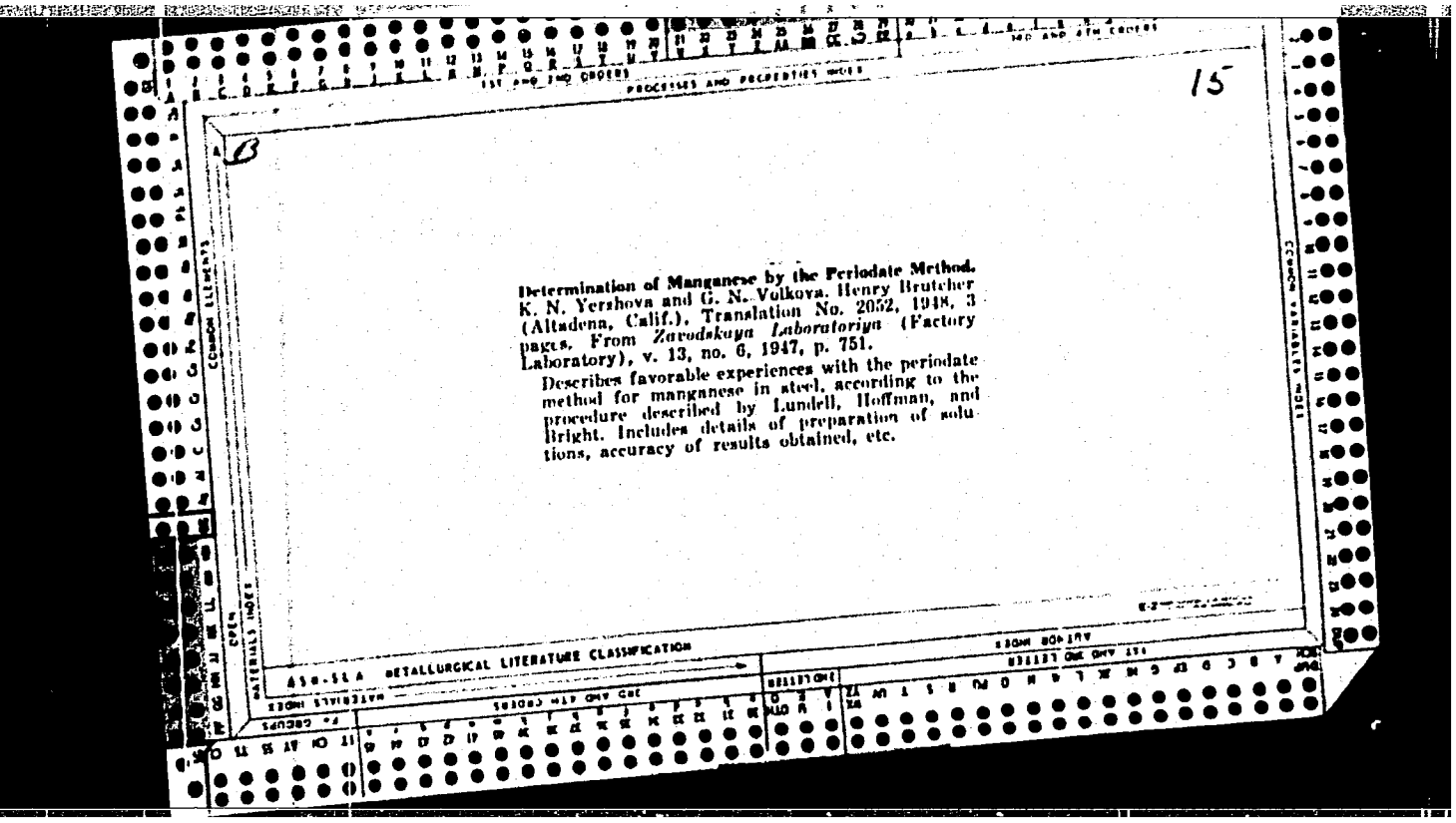


Determination of manganese by the periodate method. K. N. Krshova, and G. N. Volkova. *Zavodskaya Lab.* 13, 751(1947)(in Russian).—Periodate is obtained by fusing KI and KIO_3 with excess Na_2O_2. The product is washed with H_2O to remove excess alkali. Small amts. of Mn in steel are detd. after oxidation with KIO_4. The $HMnO_4$ formed is detd. colorimetrically. George A. Lewisin



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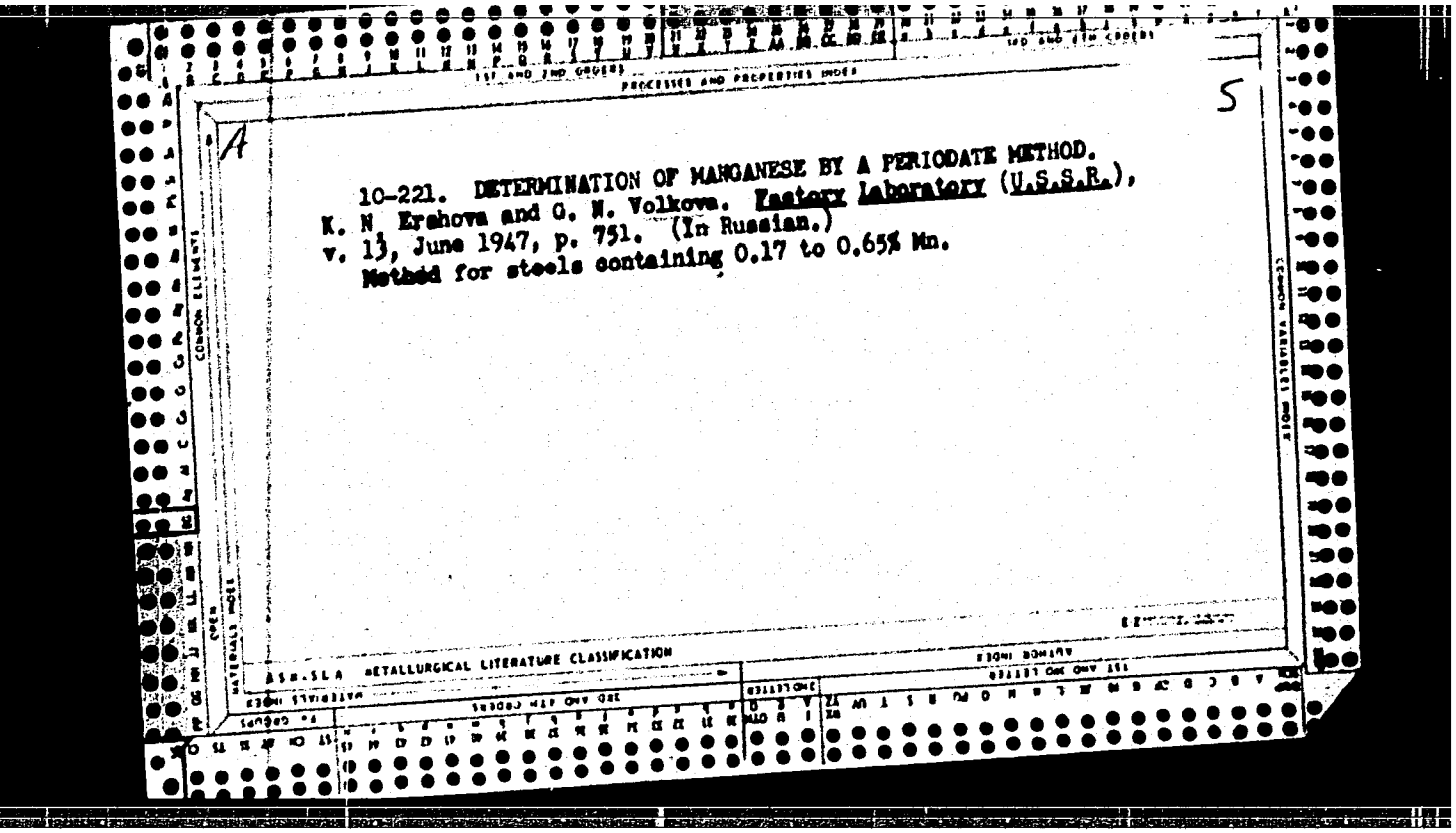
Determination of Manganese by the Periodate Method. K. N. Yershova and G. N. Volkova. Henry Brutcher (Altadena, Calif.). Translation No. 2052, 1948, 3 pages. From *Zavodskaya Laboratoriya* (Factory Laboratory), v. 13, no. 6, 1947, p. 751.

Describes favorable experiences with the periodate method for manganese in steel, according to the procedure described by Lundell, Hoffman, and Bright. Includes details of preparation of solutions, accuracy of results obtained, etc.



10-221. DETERMINATION OF MANGANESE BY A PERIODATE METHOD.
K. N. Ershova and O. N. Volkova. Zavodskaya Laboratoriya (U.S.S.R.),
v. 13, June 1947, p. 751. (In Russian.)
Method for steels containing 0.17 to 0.65% Mn.

ZHEDEK, M.S.; KHMELYK, G.G.; MAKSAKOVA, V.A.; SHANYGINA, M.I.; VOLKOVA, G.M.

Stabilization of creamery butter by antioxidants. Report No.2: Effect of antioxidants on the keeping quality of butter manufactured by the continuous line method during prolonged storage. Izv. vys. ucheb. zav.; pishch. tekh. no.6:59-63 '63. (MIRA 17:3)

1. Khar'kovskiy zooveterinarnyy institut, kafedra khimii i kafedra tekhnologii zhivotnovodcheskikh produktov.

Daily Course and the Possible Sums of the Summary Radiation

$$F_2(0) = \frac{S_0 \cos \vartheta_\odot}{1 + \varepsilon_1 \tau_0 \sec \vartheta_\odot} \qquad (3)$$

It was necessary to determine the value of the parameter $\varepsilon_1 \tau_0$ for comparing the results obtained by observation with the theoretical calculations. A theoretical solution of this problem is, however, very difficult. If the mentioned formulae are assumed to be semi-empirical, the simpler formula (3) yields the best results. The comparisons carried out showed that a rather close connection exists between the parameter $\varepsilon_1 \tau_0$ and the transparency coefficient of the atmosphere. The daily sum of the summary radiation may be calculated according to the formulae of Gal'perin if only one measurement of the flux of the summary radiation at $m = m$ and, in the case of cloudless sky which is necessary for the calculation of the parameter $\varepsilon_1 \tau_0$, is made. If, however, the dependence of this parameter on the transparency conditions of the atmosphere was already previously determined, this single observation is not necessary (in this case the transparency coefficient has of course to be known). From the data in Table 2

Daily Course and the Possible Sums of the Summary Radiation SOV/ 50-58-7-5/20

we may conclude that the calculation errors of the possible sums of the summary radiation are quite admissible, when formula (3) is employed. The use of the formulae (1) and (2) is less favorable, as was to be expected. There are 2 tables and 4 references, all of which are Soviet.

1. Radiation--Theory 2. Mathematics

Card 3/3

BABAYEVA, A.V.; VOLKOVA, G.Ya.; GRIGOR'YEVA, N.G.

Substitution reactions in the bipyridine complexes of divalent nickel and cobalt. Zhur.neorg.khim. 4 no.2:330-336 F '58. (MIRA 12:3)

(Bipyridine) (Nickel compounds) (Cobalt compounds)

VOLKOVA, G.Ye.

Organization of work in medical shools for subprofessional personnel. Med. sestra 22 no.6: 9-13 Je'63. (MIRA 16:9)
(MEDICINE--STUDY AND TEACHING)

TSIITSOVA, A.I.; VOLKOVA, G.Ye.

Raise the level of training of sub professional pharmaceutical personnel. Apt.delo 8 no.4:27-30 Jl-Ag '59. (MIRA 12:10)
(PHARMACY--STUDY AND TEACHING)

20-119-2-43/60

AUTHOR: Volkova, I. B.

TITLE: Petrographic Composition and Formation Conditions of Coal in Lower Mesozoic Coal Beds of Kazakhstan (Petrograficheskiy sostav i usloviya obrazovaniya ugley nizhnemezozoyskikh mestorozhdeniy Kazakhstana)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol 119, Nr 2, pp 343 - 346 (USSR)

ABSTRACT: During the years 1956 - 1957 the author investigated the above mentioned coals in southeast Kazakhstan (Kenderlyk) as well as in the basins of the river Ilek (Kurashashsay and Sol'-Ilek) and in the Orsk-basin. The characteristics of the coal - bearing deposits of these districts are given in table 1. In the present article different types of coal formation are determined in connection with petrographic particularities of the coals and with the general conditions of sedimentation. The investigated coals are humus-coals according to their structure, but their degree of carbonization permits to classify them as soft coal. The initial substance is manifold and on the whole

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Petrographic Composition and Formation Conditions of Coal in Lower Mesozoic Coal Beds of Kazakhstan

consists of remains of higher plants of the classes: Coniferae, Cycadeae, Gingcoaceae, Pteridophytae and Equisetaceae. The upper-triassic coals from Kurashasay mainly consist of stalk-and solid parts of the plants. In the main seam mixo-humolithes are predominant which consists of approximately equal parts of gelidified, fusainized and lipoid components. The microstructure of the coal generally is attritus matrix. Mineral admixtures are present in great quantity. In Kenderlyk lipoid-gelites are dominant. They mainly consist of leaf-tissue with a considerable amount of stalk parts. Apart from residuals of higher plants in Kurashsay as well as in Kenderlyk algae occur. The Kenderlyk- coals under the microscope show all bedded structures: horizontal, flat-oblique and oblique-wave structures. The mineral is high, mainly due to clay substance. The middle-jurassic coals (Orsk-basin) mainly consist of ligneous and stalk tissue. The structure is fragmentary, more rarely attrited. The main coal types usually have a low

Petrographic Composition and Formation Conditions of Coal in Lower Mesozoic Coal Beds of Kazakhstan

ash content. The coals from Sol'-Ilek are similar to those from Orsk. The difference of the former lies in a higher content of ash and in heavy pyritization. The coal seams here usually are of a complicated structure: they consist of several layers of different types and varieties and are separated from coal-containing and grey arenaceo-loamy rocks by interstratifications. The mentioned differences between coals of different age can be caused by modifications of the vegetation from the upper-triassic to the middle-triassic period. Of determinative importance however are here the conditions under which the accumulation, decomposition and reconversion of the parent substance of the coals have taken place. There is a regular dependence of the conditions of coal formation on the general circumstances of the sedimentation of the coal beds under question. Either intermountain or pre-mountain-valleys (in Rhät-Leiąs) or wide basin-shaped gorges with very softly sloping borders (in the middle-jurrassic formation) served

Petrographic Composition and Formation Conditions of Coal in Lower Mesozoic Coal Beds of Kazakhstan

as catchment areas of the lower-mesozoic coal-containing sediments. Their tectonic regime was different (Reference 7) which had an influence on the formation of the early peat bogs. The Kenderlyk-coals have developed in a crevassed terrain and in a quickly mutable, highly irrigated environment. Despite the existing flow the organic substance was mainly decomposed under anaerobic conditions and developed much coal, which corresponds to a fast depression of the sedimentation area. In the Orsk-depression which formed a large fault pit with calm tectonic regime, the coal accumulation took place in a slightly structured plane, in forest bogs and marshes. Here the conditions were at the limit between aerobic and anaerobic ones. Even after small modifications of the physico-geographical circumstances this led towards development of two different transformation processes of plant material: fusaination gelifica.

Card 4/5 The speed of depression here was extremely small. Most of

Petrographic Composition and Formation Conditions of Coal in Lower Mesozoic Coal Beds of Kazakhstan

the coals here ought to have developed in those places, where plants have grown. In the Kurashasay-suite, the conditions of coal formation of which are similar to those of Kenderlyk in many regards, the plant material was transported before the embedding and crushed on that occasion. The coals of Sol'-Ilek were formed under conditions similar to those of the Orsk-basin. Thus 2 types of coal formation can be distinguished here: 1) Kenderlyk-type, 2) Orsk-and Sol'-Ilek--type (table 2). There are 2 tables and 8 references, 7 of which are Soviet.

ASSOCIATION: Laboratoriya geologii uglya Akademii nauk SSSR (Laboratory for Coal Geology of the AS, USSR)

PRESENTED: December 28, 1957, by D. V. Nalivkin, Member, Academy of Sciences, USSR

SUBMITTED: December 24, 1957

VOLKOVA, I.B., Cand geol-Min Sci -- (diss) "Conditions of [the] [coal formation] of certain [low-Mesozoic Kazakhstan deposits of] according to [the] carbon-petrographic data (Kenderlyk deposit and the Orskiy Basin)." Len~~ingrad~~, 1959. 22 pp, 1 sheet of tables (Min of Higher Education USSR. Len Order of Lenin and Order of Labor Red Banner Mining Inst im G.V.Plekhanov). 120 copies (KL,39-59, 102)

VAL'TS, I.E.; VOLKOVA, I.B.

Progress in the compilation of the international dictionary on coal petrology. Izv. AN SSSR. Ser. geol. 25 no.7:127-128 Jl '60. (MIRA 13:10)

(Coal geology--Dictionaries)

VOLKOV, V.N.; MARKOVICH, Ye.M.; FADDEYEVA, I.Z.; VOLKOVA, I.B.

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FIALKO, Ye.I.; VOLKOVA, I.M., red.; SMUROV, B.V., tekhn. red.

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NOSOV, Yuriy Romanovich; VOLKOVA, I.M., red.

[Semiconductor pulse diodes] Poluprovodnikovye impul'snye diody. Moskva, Sovetskoe radio, 1965. 224 p. (MIRA 18:12)

Volkova, I. M.

USSR

Syntheses of phenylaminomethylalkoxysilanes. K. A. Andrianov and L. M. Volkova. *Doklady Akad. Nauk S.S.S.R.* 98, 67–70(1954). Heating 72 g. $(MeO)_2SiMeCH_2Cl$ (b. 141–4°, n_D^{20} 1.4170) with 140 g. $PhNH_2$ at 130–40° gave after filtration of $PhNH_2Cl$, 48% $(RO)_2SiMeCH_2NHPh$ (I) (R = Me), b_{15} 139–41°, n_D^{20} 1.5115, d_4^{20} 1.053. Other I prepd. (R, % yield, b.p., n_D^{20}, d_4^{20} given): Et, 42.5, b_{16} 152–3°, 1.4975, 1.003; Me_2CH, 43, b_{16} 160–2°, 1.4880, 0.9708; Me_2CHCH_2, 36, b_{15} 160–2°, 1.4840, 0.9530; iso-Am, 29, b_9 162–4°, 1.4832, 0.9504. With EtNHPh there was similarly obtained 37% $(RO)_2SiMeCH_2NEtPh$ (II) (R = Me), b_{15} 151–4°, n_D^{20} 1.5131, d_4^{20} 1.024. Other II prepd. are (R, % yield, b.p., n_D^{20}, d_4^{20} given): Et, 37.5, b_6 130–6°, 1.4948, 0.9926; Me_2CH, 40, b_{16} 150–6°, 1.4900, 0.9723; Me_2CHCH_2, 23, b_{16} 185–90°, 1.4890, 0.9536; iso-Am 23, b_9 167–8°, 1.4902, 0.9483. G. M. Kosolapoff

FEDOTOV, Ya.A., otv.red.; BARKANOV, N.A., red.; BERGEL'SON, I.G., red.; BROYDE, A.M., red.; GAL'PERIN, Ye.I., red.; KAMENETSKIY, Yu.A., red.; KAUSOV, S.F., red.; KOMEV, Yu.I., red.; KRASILOV, A.V., red.; KULIKOVSKIY, A.A., red.; NIKOLAYEVSKIY, I.F., red.; STEPANENKO, I.P., red.; VOLKOVA, I.M., red.; SMUROV, B.V., tekhn.red.

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[Transistor devices and their applications] Poluprovodnikovye pribory i ikh primenenie; sbornik statei. Pod red. IA.A.Fedotova. Moskva, Sovetskoe radio. No.9. 1963. 269 p. (MIRA 16:5)

(Transistors)

FEDOTOV, Yakov Andreyevich, dots., kand. tekhn. nauk; VOLKOVA, I.M., red.; BELYAYEVA, V.V., tekhn. red.

[Physical principles of semiconductor devices] Osnovy fiziki poluprovodnikovykh priborov. Moskva, Sovetskoe radio, 1963. 653 p. (MIRA 16:7)

(Semiconductors) (Transistors)

VOLKOVA, I. N.

USSR/Medicine - Acetylcholine Jul/Aug 51

"The Significance of Acetylcholine in Establishing Central Braking," I. N. Volkova, Chair of Physiol, Kazan' State Med Inst

"Fiziol Zhur SSSR" Vol XXXVII, No 4, pp 422-430

Perfusate from veins of frog spine during braking spine's reflex activity loses braking properties on addn of cholineesterase (extract from dog spleen); i.e., braking properties of perfusate depend on presence of acetylcholine. Disturbance of phospholipide metabolism produced by extirpation of pancreas leads to disturbance of

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USSR/Medicine - Acetylcholine (Contd) Jul/Aug 51

acetylcholine synthesis, which is reflected in elimination of braking in spine. Atropine also eliminates braking of reflexes. Acetylcholine and eserine [physiostigmine] exert a braking effect on the reflex action of frog spine when added in high concns to soln being perfused. When present in low concns in this soln, they stimulate excitation of muscle. This shows that acetylcholine in low concns strengthens peripheral stimulus, but in high concns is a necessary factor for bringing about central braking [blocking].

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VOLKOVA, I.N.

Role of acetylcholine in the development of central inhibition. Fiziol. zhur. 40 no.6:691-696 N-D '54. (MLRA 8:2)

1. Kafedra fiziologii Kazanskogo Gosudarstvennogo meditsinskogo instituta.

(SPINAL CORD, effect of drugs on,
acetylcholine, on form. of central inhib. in frogs)
(ACETYLCHOLINE, effects,
on spinal cord, role in form. of central inhib. in frogs)

VOLKOVA, I.N.:

VOLKOVA, I.N.: "On the role of acetylchloine in the mechanism of developing inhibition in the central nervous system". Kazan', 1955. Kazan' State Medical Inst. (Dissertaticns for the Degree of Candidate of Medical Sciences.)

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VOLKOVA, I.N.

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(NERVOUS SYSTEM, physiology
reciprocal inhib. after partial pancreatectomy in animals (Rus))
(PANCREAS, effect of excision,
partial on reciprocal inhib. in animals (Rus))